Kruse Silt Loam 82-1D-0562 (82ID-009-7)

Classification: fine-loany, mixed, frigid Ultic Haplexeralf.

General Site Characteristics

Location: Benewah County, Idaho; 1.5 miles S of Emerald Creek, Idaho; 740 feet

E & 1050 feet N of southwest corner of sec. 28, T. 43N., R. 1E.

larest:

Area: Emerald Creek

Described By/Date: Soil Conservation Service personnel on March 16, 1982

Parent Rock/Material: schist with loess mantle

Habitat Type: grand fir/ninebark; grand fir, Douglass fir, western larch, snowberry,

ninebark, oceanspray, twinflower, Oregon grape, strawberry.

Topography: steep

Landform: mountain slope, convex

Weathering:
Formation Name:
Slope: 38 percent
Aspect: south

Elevation: 2880 feet

Soil Denth:

Eff. Rooting Depth:

Litter Type:

Surface Rock:

Climate: frigid Precipitation: Erosion: slight Infiltration:

Permeability: Storage:

Drainage: well drained

Air Teno:

Soil Temp at 20 inches:

Salt/Alkal:

Remarks: Moderate brush problem.

Peden Description

01 5-4 cm. Needles, leaves, and twigs.

02 4-0 cm. Becomposed organic matter.

Ai 0-5 cm. Grayish brown (10YR 5/2) silt leam, very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; strongly acid pH 5.4; many very fine and fine, common medium roots; many very fine and fine tubular pores; clear wavy boundary.

- A2 5-15 cm. Brown (10YR 5/3) silt loam, very dark grayish brown (10YR 3/3) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; moderately acid pH 5.7; many very fine and fine, common medium roots; many very fine, common fine tubular pores; gradual wavy boundary.
- Bu 15-36 cm. Pale brown (10YR 6/3) silt loam, brown to dark brown (10YR 4/3) moist; moderate medium and coarse subangular blocky structure; moderately acid pH 5.9; common very fine and fine, few medium and coarse roots; many very fine, common fine tubular pores; gradual wavy boundary.
- Bti 36-56 cm. Pale brown (10YR 6/3) silt leam, brown to dark brown (10YK 4/3) moist; moderate medium and coarse subangular blocky structure; hard, firm, slightly sticky and slightly plastic; strongly acid pH 5.5; common very fine, few fine, medium and coarse roots; many very fine, common fine tubular pores; common thin clay films lining ped faces and pores; clear wavy boundary.
- Bt2 56-81 cm. Pale brown (18YR 6/3) silt loam, brown to dark brown (18YK 4/3) moist; moderate medium and coarse angular blocky structure; hard, firm, slightly sticky and slightly plastic; strongly acid pH 5.1; few very fine, fine, and medium roots; many very fine and fine, few medium tubular pores; common moderately thick clay films lining ped faces and pores; two clay bands (2 cm thick) strong brown (7.5YR 4/6); clear wavy boundary.
- Bt3 81-109 cm. Pale brown (18YR 6/3) silt loam, brown to dark brown (18YR 4/3) moist; weak medium and coarse angular blocky structure; slightly hard, fraible, slightly sticky and slightly plastic; strongly acid pH 5.1; few very fine roots; common very fine, few fine tubular pores; many thick clay films lining ped faces and pores; clay films are dark brown (7.5YR 3/4); clear wavy boundary.
- Bt4 109-130 cm. Light yellowish brown (10YR 6/4) silt loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse angular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; strongly acid pH 5.1; few very fine roots; common very fine, few fine tubular pores; common thin clay films lining ped faces and pores; few fine iron stains; clear wavy boundary.
- C 138-157 cm. Light yellowish brown (18YR 6/4) fine sandy loam, dark yellowish brown (18YR 4/4) moist; massive structure; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; common very fine, few fine tubular pores; few fine iron stains; abrupt irregular boundary.
 - Cr 157+ cm. Weathered schist.

Pedon: Kruse Silt Lean 82-10-0562 (82ID-009-7)

					Da-41		_11	5	Z Water at		A:1-k1-	Sesquioxides					
Sample No.	Herize	en	Depth		pH paste	EC#10	2 wat Satur	er at ation	Available P	Di-Citrat Fe	Extract Al	Pyrophe Fe	sphate	Extract Al	Spedie		
			CA			mmbes/cm			ppn	and the state of t		- 7					
12345678	01 02 A1 A2 Bu B11 B12 B13 CCR		5- 4 4- 8 0- 5 5- 15 36- 36 36- 81 81-109 189-138 130-157		NS NS 5.4 5.9 5.1 5.1 5.1 8	NS 1.60 0.62 0.31 0.20 0.12 0.11 0.15 NS	NS NS 72 51 40 38 36 42 40 32 NS		NS 6.465.684 913.884 813.884								
ample	Exch	angea	ble Ions	;	Ext.	Acidity	CEC	Base	UH	ÚC	Н	C:N	Soi	1			
No.	Ca	Mg	Na	K		Н		Saturati	ion				Fract	ien	Naf pH		
				neq/1) gns -			Z		Z		ratio					
12345678	13.4 9.2 7.3 5.8	NS NS 2.0 1.0 2.3 NS 1.0 2.3 NS	NS 11110.120.120.12	NS NS 0.4 0.4 0.3 0.2 0.2 NS		NS NS 14.6 95.5 5.7 8.1 NS	NS NS 25.4 14.3 10.6 8.8 10.1 13.7 13.5 9.6 NS	NS 53 54 57 58 59 67 88	NS NS 12.43 3.05 1.22 0.54 0.42 0.37 0.26 NS	NS NS 7.23 1.77 0.71 0.31 0.24 0.23 0.21	NS NS 0.231 0.076 0.052 0.028 0.028 0.025 0.024 0.022 NS	NS NS 1184 S S S S S S S S S S S S S S S S S S S	NS NS 1.08 1.08 1.08 1.08 1.08 1.08		NS NS 8.3 8.6 7.9 8.0 7.9 NS		

Remarks: CEC's were leached with 18% acidified NaCl. CEC's and nitrogens were run by steam distillation. Extractable cations wer run on the Jarrell Ash atomic absorption. NS - no sample

Analysis by: Debbie Eisinger

Date: June 1984

fedon:	Kruse Silt Loam B2-ID-0562 (82ID-009-7)		Date	e: May 1	984

			Parti	cle Size Dist	ribution (m	n)				Gravel &	Stone	
epth .	VCS	CS	MS	FS	VFS	TS	TSi		TC	>2	44	Textural
	2-1.0	1-0.5	0.5-0.25	0.25-0.1	0.1-0.05	2-0.05	0.05-0.00	2	(0.002	wt.	vol.	Classes
C.				z							-1	
5- 4 4- 0 0- 5 5- 15 15- 36 36- 56 56- 81 81-109 109-130 130-157 157+	NS NS 4.28 1.93 1.70 1.12 0.90 0.69 1.32 6.82 NS	NS NS 2.78 1.69 1.71 1.49 1.12 1.02 1.48 5.10 NS	NS NS 1.63 1.06 1.21 0.95 0.86 1.00 1.13 3.92 NS	NS NS 5.55 4.77 4.86 5.02 5.12 5.26 5.75 25.33 NS	NS NS 9.27 11.00 11.77 13.18 14.71 13.21 13.99 22.13 NS	NS NS 23.51 20.45 21.76 22.70 21.18 23.67 63.30 NS	66.26 66.03 63.19 59.49 58.52		NS NS 11. 92 13. 03 12. 49 12. 21 14. 11 19. 33 17. 81 8. 42 NS	NS NS none none none none none none NS		NS NS Silt loam
	Sil	t Size Distri	ibution (mm)) 			Water Con	tent	Liqu	uid 	Plastic	Plastic
Depth	CoSi	Msi		Fsi	Bulk Densi	ity	1/3	15	Limi	it 	Limit	Index
	0.05-0	.02 0.02-0.0	0.005	5-0.002	Clod Co	ore	Bar	Bar				
CA ·		z			g/cc -		1 -				x	
5- 4 4- 0 0- 5 5- 15 15- 36 36- 56 56- 81 81-109 109-130 130-157 157+ Remarks:	à	s were run by dded, sonifie o sample	y the centri ed, and cart	ifuge method, bonates were	5% sodim he not removed.	exametap	36.7 30.7 28.2 28.1 32.1 31.1 17.1 NS	NS NS 29.8 19.5 16.7 14.4 15.3 18.0 16.8 11.5 NS	Analys	sis by:	Anita L	. Falen